Application No. 10/712,173 January 20, 2006 Page 2 of 19 Docket No. CM01560L - Kim, ct al.

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

## Listing of Claims:

- 1. (currently amended) An energetic beam markable article comprising:
  - a first thermoplastic substrate, wherein the first thermoplastic substrate is transparent;
  - a first layer on the first thermoplastic substrate, the first layer comprising:

one or more first areas comprising:

a thermally coalescable material wherein the thermally coalescable material within the one or more first areas is characterized by an average dispersed body size; and

one or more second areas comprising:

the thermally coalescable material, wherein the thermally coalescable material within the one or more second areas is coalesced into bodies characterized by an average dimension that substantially exceeds the average dispersed body size; and

a second thermoplastic substrate covering the first layer.

(original) The energetic beam markable article according to claim 1 wherein:
 the average dispersed body size is less than 400 nanometers.

Application No. 10/712,173 January 20, 2006 Page 3 of 19

Docket No. CM01560L - Kim, et al.

3. (currently amended) The energetic beam markable article according to claim 1 furthercomprising:

18475232350

a second substrate covoring the first layer, wherebywherein the first layer is sandwiched between the first thermoplastic substrate and the second thermoplastic substrate; and

wherein at least one of the first and second substrates is transparent.

- (currently amended) The energetic beam markable article according to claim 13 wherein: 4. the first thermoplastic substrate comprises a first thermoelastic thermoplastic film; and the second thermoplastic substrate comprises a second thermoelastic thermoplastic film.
- (currently amended) The energetic beam markable article according to claim 1 wherein: 5. the first thermoplastic substrate comprises a thermoelastic thermoplastic film.
- (currently amended) The energetic beam markable article according to claim 5 wherein: 6. the thermoelastic thermoplastic film comprises a polymer selected from the group consisting of: polycarbonate, poly (ethylene terephthalate), and poly (butylene terephthalate).
- (original) The energetic beam markable article according to claim 1 wherein the thermally 7. coalescable material comprises particles comprising a polymer.

Application No. 10/712,173 January 20, 2006 Page 4 of 19 Docket No. CM01560L - Kim, et al.

- 8. (currently amended) The energetic beam markable article according to claim 12 wherein the thermally coalescable material comprises polymeric particles selected from the group consisting of: poly (methacrylate), poly (vinyl acetate), styrene-butadiene-acrylonitrile copolymers.
- 9. (original) An energetic beam markable article according to claim 1 wherein: the first layer further comprises a continuous phase wherein the thermally coalescable material within the one or more first areas is dispersed within the continuous phase.
- 10. (original) The energetic beam markable article according to claim 1 wherein:
  the first layer comprises:
  - a quantity of solvent;
  - a quantity of emulsifier, at least a portion of which is in the form of micelles dispersed within the solvent; and
- a quantity of polymerization initiator dispersed in the solvent; and the thermally coalesceable material comprises a quantity of monomer dispersed within the solvent.
- 11. (original) The energetic beam markable article according to claim 10 wherein the first layer further comprises:

capsules and wherein the quantity of solvent, the quantity of monomer, and the quantity of emulsifier, and the quantity of polymerization initiator are encapsulated within the capsules.

Application No. 10/712,173 January 20, 2006 Page 5 of 19 Docket No. CM01560L - Kim, et al.

- 12. (original) The energetic beam markable article according to claim 1 further comprising:
  a heat reflecting second layer on the first substrate.
- 13. (currently amended) The energetic beam markable article according to claim 1 made by a process including exposing one or more shaped areas of the <u>first</u> layer to optical radiation to fuse the <u>thermally</u> coalescable material, and form the one or more second areas.
- 14. (withdrawn) An injection molded part comprising:
   a bulk of injected molded polymer; and
   the energetic beam markable article according to claim I fused to the bulk of injected
   molded polymer.
- 15. (withdrawn) The injection molded part according to claim 14, wherein: the energetic beam markable article is fused to the bulk of injected molded polymer in the course of injecting polymer into a mold to form the injection molded part.
- (original) An energetic beam markable article comprising:
   a layer of polymeric particles, wherein the polymeric particles comprise:
   a core characterized by a first color; and
   a shell characterized by a second color.

Application No. 10/712,173 January 20, 2006 Page 6 of 19

Docket No. CM01560L - Kim, et al.

P.8/47

- (original) The energetic beam markable article according to claim 16 further comprising: 17. a first thermoplastic sheet, and a second thermoplastic sheet wherein the layer of polymeric particles is disposed between the first thermoplastic sheet and the second thermoplastic sheet.
- (original) The energetic beam markable article according to claim 17 further comprising: 18. a heat reflecting second layer supported on the first thermoplastic sheet.
- (original) An energetic beam markable article comprising: 19.
  - a first substrate;
  - a first layer on the first substrate, the first layer comprising: one or more first areas comprising:
    - a quantity of polymerizable monomer;
    - a network of first polymer molecules dispersed within the polymerizable monomer, and held together by the polymerizable monomer thereby forming a gel.
- (original) The energetic beam markable article according to claim 19 wherein: 20. the quantity of polymerizable monomer comprises one or more monomers selected from the group consisting of methacrylates, vinyl acetate, styrene, butadiene, and acrylonitrilesc.

Application No. 10/712,173 January 20, 2006 Page 7 of 19

Docket No. CM01560L - Kim, et al.

- (original) The energetic beam markable article according to claim 19 wherein: 21.
- the network of first polymer molecules comprises one or more polymers selected from the group consisting of poly(N-isopropylacrylamide), poly(organotriethoxysilanes), and poly(vinyl alcohol-co-vinyl acetate)/poly(acrylic acid).

18475232350

- (original) The energetic beam markable article according to claim 20 further comprising: 22. a heat reflecting second layer supported on the first substrate.
- (original) The energetic beam markable article according to claim 19 wherein the layer 23. further comprises:

one or more second areas comprising:

- a quantity of the first polymer molecules; and a quantity of second polymer molecules that are a polymerization product of the polymerizable monomer.
- (original) The energetic beam markable article according to claim 23 made by a process 24. including exposing one or more shaped areas of the layer to an energetic beam in order to polymerize the polymerizable monomer.

25-34. (canceled)